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<110> Shi, Yanggu
Ruben, Steve M.

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<141> 2001-03-02

<150> 60/187,015

<151> 2000-03-06

<150> PCT/US00/05759

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<150> PCT/US99/21048

<151> 1999-09-15

<150> 09/268,311

<151> 1999-03-16

<150> PCT/US98/19121

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 Met Ser
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 35 40 45 50
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agt	gaa	ggg	gct	acg	gtg	cag	ctg	act	cca	tat	ttt	cct	act	tgt	ggc	884	
Ser	Glu	Gly	Ala	Thr	Val	Gln	Leu	Thr	Pro	Tyr	Phe	Pro	Thr	Cys	Gly		
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agc	gac	tgc	atc	cga	cat	aaa	gga	aca	gtt	gtg	ctc	tgc	cca	caa	aca	932	
Ser	Asp	Cys	Ile	Arg	His	Lys	Gly	Thr	Val	Val	Leu	Cys	Pro	Gln	Thr		
	260					265					270						
ggc	gtc	cct	ttc	cct	ctg	gat	aac	aac	aaa	agc	aag	ccg	gga	ggc	tgg	980	
Gly	Val	Pro	Phe	Pro	Leu	Asp	Asn	Asn	Lys	Ser	Lys	Pro	Gly	Gly	Trp		
275					280					285					290		
ctg	cct	ctc	ctc	ctg	ctg	tct	ctg	ctg	gtg	gcc	aca	tgg	gtg	ctg	gtg	1028	
Leu	Pro	Leu	Leu	Leu	Leu	Ser	Leu	Leu	Val	Ala	Thr	Trp	Val	Leu	Val		
				295					300					305			
gca	ggg	atc	tat	cta	atg	tgg	agg	cac	gaa	agg	atc	aag	aag	act	tcc	1076	
Ala	Gly	Ile	Tyr	Leu	Met	Trp	Arg	His	Glu	Arg	Ile	Lys	Lys	Thr	Ser		
			310					315					320				
ttt	tct	acc	acc	aca	cta	ctg	ccc	ccc	att	aag	gtt	ctt	gtg	gtt	tac	1124	
Phe	Ser	Thr	Thr	Thr	Leu	Leu	Pro	Pro	Ile	Lys	Val	Leu	Val	Val	Tyr		

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 Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr Glu Phe
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 Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp Gln Lys
 355 360 365 370
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 Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr Gln Lys
 375 380 385
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 Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val Asn Ser
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 Val Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser Glu Asn
 405 410 415
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 Ser Gln Asp Ser Ser Pro Leu Pro Leu Thr Phe Ser Ala Val Ile
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 35 40 45
 Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile

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Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr 100 105 110		
Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val 115 120 125		
Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala 130 135 140		
Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro 145 150 155 160		
Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala 165 170 175		
Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu 180 185 190		
Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met 195 200 205		
Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu 210 215 220		
Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr 225 230 235 240		
Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr 245 250 255		
Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro 260 265 270		
Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly 275 280 285		
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Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr 340 345 350		
Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp 355 360 365		
Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr 370 375 380		

Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val
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Gln	Glu	Asp	Arg	Ser	Met	Val	Ser	Val	Pro	Val	Phe	Ser	Gln	Val	Pro															
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Gln Arg Lys Cys Glu Val Asn Leu Gln Leu Trp Met Ser Asn Lys Arg
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 Ser Leu Ser Pro Trp Gly Tyr Ser Ile Asn His Asp Pro Ser Arg Ile
 80 85 90
 Pro Val Asp Leu Pro Glu Ala Arg Cys Leu Cys Leu Gly Cys Val Asn
 95 100 105
 Pro Phe Thr Met Gln Glu Asp Arg Ser Met Val Ser Val Pro Val Phe
 110 115 120
 Ser Gln Val Pro Val Arg Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr
 125 130 135 140
 Gly Pro Cys Arg Gln Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys
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 Thr Cys Ile Phe
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